

Gunflint and Tofte Ranger Districts, Superior National Forest								
U.S. Forest Service - Region 9 Forester's Sensitive Species: Terrestrial Wildlife								
(December 14, 2011 update)								
Likelihood of Occurrence in the Project Area and Determination of Effects								
for Cook County Land Exchange (EA)								
KEY:								
<sup>a</sup> Suitable Habitat or Known Occurrence within Analysis Area			N = No, no suitable habitat in the project area or no known occurrences					
			Y = Yes, suitable habitat is in the project area or there is a known occurrence					
<sup>b</sup> Determination of Effects			NO= no impacts/effects					
			MINL = may impact individuals but not likely to cause a trend to federal listing or a loss of viability					
			LFLV = likely to result in a trend to federal listing or a loss of viability					
			NLAA = may effect but not likely to adversely affect					
			LAA = may effect and is likely to adversely affect					
			BI = Beneficial impacts					
			U = Impacts unknown					
Common Name	Scientific Name	Management Indicator Habitat (MIH) and Age Class	MIH Related Microhabitats and Other Indicators	Habitat Summary	<sup>a</sup> Suitable Habitat in Analysis Area	<sup>a</sup> Known Occurrence in Analysis Area	<sup>b</sup> Determination of Effects	
							No Action	Proposed Action
<b>MAMMALS</b>								
Gray wolf	<i>Canis lupus</i>	MIH 1, 2, 5 - all ages	Various - adequate prey and low human disturbance	Variety of habitats, adequate prey, low human disturbance	Yes	Yes	NO	MINL
Little Brown Myotis	<i>Myotis lucifugus</i>	MIH 1 - Upland all ages	Winter hibernaculum: caves, mines, tunnels, buildings; Summer: large diameter trees, loose bark, human structures (bridges and buildings); Foraging: stream and forest borders, cliffs, meadows, forested areas	Winter hibernaculum: caves, mines, tunnels, buildings. Summer: large diameter trees, loose bark, snags, wetlands, riparian	Yes	No	NO	MINL
Northern Myotis	<i>Myotis septentrionalis</i>	MIH 1 - Upland all ages	Winter hibernaculum: caves, mines, tunnels, buildings; Summer: forested habitats near wetlands, large diameter trees, loose bark, bridges; Foraging: upland patches	See Little Brown Myotis	Yes	No	NO	MINL
Tri-colored Bat	<i>Perimyotis subflavus</i>	MIH 1 - Upland all ages, MIH 2 - Upland Deciduous mature +	Winter hibernaculum: caves, mines, tunnels, buildings; Summer: large diameter trees, caves, cliffs, rock shelters, human structures (bridges and buildings); Foraging: canopy gaps, edge and open habitats, over water	See Little Brown Myotis	Yes	No	NO	MINL
Heather vole	<i>Phenacomys ungava</i>	MIH 8 - Jack Pine all ages	Rocks; <i>Vaccinium</i> sp. in understory	Forest, brushland or clearcuts with <i>Vaccinium</i> spp and rocks	Yes	Yes	NO	MINL
<b>BIRDS</b>								
Bald Eagle	<i>Haliaeetus leucocephalus</i>	MIH 7 - Red and White Pine mature +	Mature/old-growth forested areas within 1/2 mile of fish-bearing water; large diameter white pine	Large lakes & rivers with large trees for nesting and roosting	Yes	Yes	NO	MINL
Northern goshawk	<i>Accipiter gentilis</i>	MIH 1 - Upland mature +, MIH 13 - Large Patches of Upland mature	Large diamter trees; patches of mature upland > 100 acres; contiguous canopy; open understory	Large patch of older trees with closed canopy and open understory	Yes	Yes	NO	MINL

Common Name	Scientific Name	Management Indicator Habitat (MIH) and Age Class	MIH Related Microhabitats and Other Indicators	Habitat Summary	<sup>a</sup> Suitable Habitat in Analysis Area	<sup>a</sup> Known Occurrence in Analysis Area	<sup>b</sup> Determination of Effects	
							No Action	Proposed Action
Boreal owl	<i>Aegolius funereus</i>	MIH 4 - Aspen-Birch mature +, MIH 9 - Lowland Conifer all ages	Secondary cavity nester; large diameter hardwoods with cavities; lowland conifer patches > 500 acres	Secondary cavity nester Old boreal forest (inc aspen) next to lowland conifer foraging areas	Yes	No	NO	MINL
Great gray owl	<i>Strix nebulosa</i>	MIH 1 - Upland mature + and young, MIH 4 - Aspen-Birch mature + and young, MIH 9 - Lowland Conifer young	Tamarack bogs, sphagnum bogs, muskegs; large diameter tress for nesting; wet soil with >60% canopy closure; open areas for foraging; large lowland patches	Nesting habitat of mature trees on wet soil with >60% canopy closure near open foraging areas	Yes	Yes	NO	MINL
Olive-sided flycatcher	<i>Contopus cooperi</i>	MIH 9 - Lowland Conifer all ages	Forest openings and edges; shorelines and riparian; snags	Snags, low density conifer lowlands, riverine/riparian areas	Yes	Yes	NO	MINL
Bay-breasted warbler	<i>Dendroica castanea</i>	MIH 6 - Upland Spruce-Fir mature +, MIH 9 - Lowland Conifer mature +	Spruce budworm outbreaks; mature upland and lowland conifer patches greater than 50 acres	Mature upland and lowland spruce/fir forests	Yes	No	NO	MINL
Connecticut warbler	<i>Oporornis agilis</i>	MIH 8 - Jack Pine mature +, MIH 9 - Lowland Conifer mature +	Large lowland conifer patches with thick ericaceous understory	Jack pine or lowland conifer with a thick ericaceous understory. Area sensitive species	Yes	No	NO	MINL
American three-toed woodpecker	<i>Picoides tridactylus</i>	MIH 8 - Jack Pine mature +, MIH 9 - Lowland Conifer mature +	Moist, swampy areas; mature coniferous forest with abundance of snags; large lowland patches; insects	Coniferous forests with snags. Responds to forest disturbance resulting from fire, insects, disease, wind.	Yes	Yes	NO	MINL
<b>REPTILES</b>								
Wood turtle	<i>Clemmys insculpta</i> ( <i>Glyptemys</i> )	MIH 2 - Upland Deciduous mature +, MIH 10 -Upland Mature Riparian	Riverine systems with well-drained soils; sandy areas for nesting	Upland and lowland habitats with suitable shade and insects for forage. Riparian habitats with open sandy areas for nesting	No	No	NO	NO
<b>INSECTS</b>								
Taiga alpine butterfly	<i>Erebia mancinus</i>	MIH 9 - Lowland Conifer all ages	Shady black spruce swamps; sedges	Shady black spruce swamp	Yes	No	NO	MINL
Nabokov's (or Northern) blue butterfly	<i>Lycaeides idas nabokovi</i>	MIH 8 - Jack Pine	Presence of dwarf-bilberry in open sandy jack pine areas and rock knobs; On SNF: Laurentian, Gunflint and Tofte Districts	<i>Vaccinium cespitosum</i> host in open sandy jack pine areas and rock knobs. On SNF: Laurentian, Gunflint and Tofte Districts	Yes	No	NO	MINL
Freija's grizzled skipper	<i>Pyrgus centaureae freija</i>	No MIH association	Upland acidic meadow, scrubby willow, barrens; On SNF: known only from the McNair special management area.	Known only from the McNair special management area. Upland acidic meadow, scrubby willow, barrens	No	No	NO	NO